

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) An ink jet printhead comprising:

an underlying substrate;

a unitary amorphous ceramic structure having a plurality of nozzles formed in a nozzle plate with a plurality of nozzles formed therein and an array of sidewalls extending from one side of the nozzle plate to the underlying substrate, the underlying substrate, the nozzle plate and the array of sidewalls defining an array of:

a-bubble forming chambers corresponding to each of the nozzles respectively, the bubble forming chambers having a circular cross section and adapted to hold bubble forming liquid, the bubble forming chamber being partially defined by a sidewall extending between the nozzle plate and an underlying substrate, the sidewall and the nozzle plate being integrally formed from an amorphous ceramic material; and,

at least one heater element disposed in each of the bubble forming chambers respectively, the heater elements configured for thermal contact with the bubble forming liquid; such that,

heating the heater element to a temperature above the boiling point of the bubble forming liquid forms a gas bubble that causes the ejection of a drop of an ejectable liquid through the nozzle corresponding to that heater element.

2. (Withdrawn) An ink jet printhead according to claim 1 wherein the bubble forming chamber is cylindrical.

3. (Withdrawn) An ink jet printhead according to claim 1 wherein the bubble forming chamber is barrel-shaped.

4. (Withdrawn) An ink jet printhead according to claim 1 wherein the bubble forming chamber is a truncated cone shape.

5. (Withdrawn) An ink jet printhead according to claim 1 wherein the bubble forming chamber is spherical.

6. (Original) An ink jet printhead according to claim 1 wherein the ejectable liquid is the same as the bubble forming liquid.
- 7 (Original) An ink jet printhead according to claim 1 wherein the printhead is a pagewidth printhead.
8. (Cancelled).
9. (Withdrawn) An ink jet printhead according to claim 8 wherein the amorphous ceramic material is silicon nitride.
10. (Withdrawn) An ink jet printhead according to claim 8 wherein the amorphous ceramic material is silicon dioxide.
11. (Withdrawn) An ink jet printhead according to claim 8 wherein the amorphous ceramic material is silicon oxynitride.
12. (Currently Amended) A printer system which incorporates a printhead, the printhead comprising:
  - an underlying substrate;
  - a unitary amorphous ceramic structure having a nozzle plate with a plurality of nozzles formed therein and an array of sidewalls extending from one side of the nozzle plate to the underlying substrate, the underlying substrate, the nozzle plate and the array of sidewalls defining an array of bubble forming chambers corresponding to each of the nozzles respectively, the bubble forming chambers having a circular cross section and adapted to hold bubble forming liquid;
  - a plurality of nozzles;
  - a bubble forming chamber corresponding to each of the nozzles respectively, the bubble forming chambers having a circular cross section and adapted to hold bubble forming liquid, the bubble forming chamber being partially defined by a sidewall formed of amorphous ceramic material extending between the nozzle plate and an underlying substrate, the sidewall and the nozzle plate being integrally formed from an amorphous ceramic material; and,

at least one heater element disposed in each of the bubble forming chambers respectively, the heater elements configured for thermal contact with the bubble forming liquid; such that, heating the heater element to a temperature above the boiling point of the bubble forming liquid forms a gas bubble that causes the ejection of a drop of an ejectable liquid through the nozzle corresponding to that heater element.

13. (Withdrawn) A printer system according to claim 12 wherein the bubble forming chamber is cylindrical.

14. (Withdrawn) A printer system according to claim 12 wherein the bubble forming chamber is barrel-shaped.

15. (Withdrawn) A printer system according to claim 12 wherein the bubble forming chamber is a truncated cone shape.

16. (Withdrawn) A printer system according to claim 12 wherein the bubble forming chamber is spherical.

17. (Original) A printer system according to claim 12 wherein the ejectable liquid is the same as the bubble forming liquid.

18. (Original) A printer system according to claim 12 wherein the printhead is a pagewidth printhead.

19. (Cancelled).

20. (Withdrawn) A printer system as claimed in claim 19 wherein the amorphous ceramic material is silicon nitride.

21. (Withdrawn) A printer system as claimed in claim 19 wherein the amorphous ceramic material is silicon dioxide.

22. (Withdrawn) A printer system as claimed in claim 19 wherein the amorphous ceramic material is silicon oxynitride.

23. – 33. (Cancelled).